

TABLE 1

	Amorphous PES		Block PES		Other PES		Coloring agent	CCA	Wax		External additive			
	Kind	Content (pts.wt)	Kind	Content (pts.wt)	Kind	Content (pts.wt)					Rutile-anatase type titanium oxide	Silica with relatively small size	Silica with relatively large size	Positively-chargable silica
Example 1	PES-A	80	PES-B	20	-	-	6	1	KW	2	1	1	0.5	-
Example 2	PES-A	95	PES-B	5	-	-	6	1	KW	2	1	1	0.5	-
Example 3	PES-A	55	PES-B	45	-	-	6	1	KW	2	1	1	0.5	-
Example 4	PES-A	80	PES-C	20	-	-	6	1	KW	2	1	1	0.5	-
Example 5	PES-A'	30	PES-B	70	-	-	6	1	KW	2	1	1	0.5	-
Example 6	PES-A	80	PES-B	20	-	-	6	1	KW	1	1	1	0.5	-
Example 7	PES-A	80	PES-B	20	-	-	6	1	KW	3	1	1	0.5	-
Example 8	PES-A	80	PES-B	20	-	-	6	1	PE	3	1	1	0.5	-
Example 9	PES-A	80	PES-B	20	-	-	6	1	KW	2	-	1	0.5	-
Example 10	PES-A	80	PES-B	20	-	-	6	1	KW	2	1	1	0.5	1
Example 11	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	1	1	0.5	-
Example 12	PES-A''	90	PES-B'	10	-	-	6	1	KW	2	1	1	0.5	-
Example 13	PES-A''	85	PES-B'	15	-	-	6	1	KW	1	1	1	0.5	-
Example 14	PES-A''	85	PES-B'	15	-	-	6	1	KW	3	1	1	0.5	-
Example 15	PES-A''	85	PES-B'	15	-	-	6	1	PE	3	1	1	0.5	-
Example 16	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	-	1	0.5	-
Example 17	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	1	1	0.5	1
Com. Ex. 1	PES-A'	80	PES-C	20	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 2	PES-A'	80	PES-B	20	-	-	6	1	KW	4	1	1	0.5	-
Com. Ex. 3	PES-A'	80	PES-B	20	-	-	6	1	PE	3	1	1	0.5	-
Com. Ex. 4	PES-A	100	-	-	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 5	-	-	PES-B	100	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 6	PES-A'	100	-	-	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 7	PES-A	80	-	-	PES-D	20	6	1	KW	2	1	1	0.5	-

Table 2

	Acid value of toner (KOHmg/g)	Average particle size of toner ( $\mu\text{m}$ )	Average roundness R of toner	Average length of crystals (nm)	Coating ratio with external additive(%)	Ratio of free rutile-anatase type titanium oxide (wt%)	$G(0.01)/G(\Delta t)$
Example 1	0.8	7.5	0.96	500	160	1.2	2.8
Example 2	0.8	7.5	0.97	300	160	1.5	6.5
Example 3	0.8	7.5	0.96	600	160	1.2	2.6
Example 4	3.2	7.5	0.96	500	160	1.3	5.2
Example 5	4.8	7.5	0.95	700	160	2.3	2.3
Example 6	0.8	7.5	0.96	500	160	1.5	2.4
Example 7	0.8	7.5	0.96	500	160	1.0	3.3
Example 8	1.5	7.5	0.96	500	160	1.5	3.0
Example 9	0.7	7.5	0.96	500	110	0.0	2.8
Example 10	0.7	7.5	0.96	500	190	1.1	2.8
Example 11	6.0	7.5	0.96	600	160	1.1	3.2
Example 12	6.3	7.5	0.97	500	160	1.0	3.9
Example 13	5.5	7.5	0.96	600	160	1.3	2.8
Example 14	6.5	7.5	0.96	600	160	0.9	3.7
Example 15	6.8	7.5	0.96	600	160	1.4	3.4
Example 16	5.7	7.5	0.96	600	110	0.0	3.3
Example 17	5.7	7.5	0.96	600	190	1.0	3.3
Com. Ex. 1	14.0	7.5	0.96	500	160	1.8	5.2
Com. Ex. 2	13.0	7.5	0.96	500	160	1.9	3.2
Com. Ex. 3	15.0	7.5	0.96	500	160	2.1	3.3
Com. Ex. 4	0.8	7.5	0.98	0	160	2.2	9.5
Com. Ex. 5	0.7	7.5	0.95	1000	160	1.5	9.5
Com. Ex. 6	14.0	7.5	0.98	0	160	2.1	9.4
Com. Ex. 7	0.8	7.5	0.95	3000	160	2.0	7.8

Table 3

	Temperature range in which good fixation is ensured	Durability in development	Storage stability	Charging properties					Transfer efficiency (%)	Transparency
	(°C)			Initial charge amount ( $\mu\text{C/g}$ )	Charge amount of toner after 1K	Charge amount under high temperature and high humidity conditions (at 30°C and at 85% humidity) ( $\mu\text{C/g}$ )	Charge amount of toner charged with opposite polarity	Abundance ratio of toner charged with opposite polarity (wt%)		
Example 1	130-190	A	A	-12	A	-12	A	1.5	98	A
Example 2	120-170	B	A	-11	A	-11	A	1.6	98	A
Example 3	150-210	A	A	-12	A	-12	A	1.3	98	A
Example 4	120-180	A	B	-18	B	-16	A	1.6	98	A
Example 5	170-220	B	A	-23	B	-18	A	1.5	98	A
Example 6	140-180	B	A	-13	A	-13	A	1.6	98	A
Example 7	120-190	A	B	-11	B	-11	A	1.5	98	A
Example 8	130-190	A	B	-14	B	-13	A	1.3	98	A
Example 9	120-190	A	B	-15	B	-20	A	2.5	97	A
Example 10	140-200	A	A	-15	A	-15	A	1.1	99	A
Example 11	120-210	A	A	-15	A	-15	A	1.6	98	A
Example 12	120-200	A	B	-14	A	-14	A	1.6	98	A
Example 13	130-200	A	A	-13	A	-13	A	1.8	98	A
Example 14	120-210	A	B	-15	B	-15	A	1.8	98	A
Example 15	120-210	A	B	-13	B	-13	A	2.0	98	A
Example 16	120-210	A	B	-18	B	-23	A	2.7	97	A
Example 17	130-220	A	A	-18	A	-18	A	1.7	99	A
Com. Ex. 1	120-180	A	B	-28	B	-9	A	1.8	97	A
Com. Ex. 2	120-180	A	B	-26	B	-8	A	2.3	97	A
Com. Ex. 3	120-180	A	B	-27	B	-7	A	2.8	97	A
Com. Ex. 4	120-150	C	C	-11	D	-10	B	5.2	97	A
Com. Ex. 5	140-160	C	B	-15	B	-14	A	2.8	98	B
Com. Ex. 6	120-140	C	C	-18	D	-8	B	5.6	97	A
Com. Ex. 7	140-170	C	C	-11	D	-10	B	3.5	97	B